

# INTERNATIONAL SEARCH REPORT

Internat Application No  
PCT/IB 03/04647

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H05K9/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 957 665 A (ALPS ELECTRIC CO LTD) 17 November 1999 (1999-11-17) paragraph [0018] - paragraph [0038]	1,2
A	---	3
A	US 5 731 964 A (KITAKUBO KAZUTO ET AL) 24 March 1998 (1998-03-24) column 2, line 16 - line 48	1-3
A	---	1-3
A	US 5 508 889 A (II HIDEHIRO) 16 April 1996 (1996-04-16) column 1, line 40 - column 2, line 14	1-3

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "A" document member of the same patent family

Date of the actual completion of the international search

16 February 2004

Date of mailing of the international search report

08 MAR 2004

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# INTERNATIONAL SEARCH REPORT

relation on patent family members

Internat Application No  
PCT/TB 03/04647

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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			DE 69913425 D1	22-01-2004
			EP 0957665 A2	17-11-1999
			TW 517506 B	11-01-2003
			US 6399893 B1	04-06-2002
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US 5731964	A	24-03-1998	JP 8316677 A	29-11-1996
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